



The schematic diagram illustrates the internal components and pin connections of the IC3 XMEGA-A4 microcontroller. The internal components include a reset pin (RST) connected to SPST\_TACT-EVQQ2, a GND pin connected to GND, a VCC pin connected to VCCDATA, and a GND pin connected to GND. The external components include a 100nF capacitor (C1), a 100nF capacitor (C13), a 100nF capacitor (C16), a 100nF capacitor (C26), and a 100nF capacitor (C27). The pin connections are as follows:

- Pin 1: VCCDATA
- Pin 2: GND
- Pin 3: GND
- Pin 4: GND
- Pin 5: GND
- Pin 6: GND
- Pin 7: GND
- Pin 8: GND
- Pin 9: GND
- Pin 10: GND
- Pin 11: GND
- Pin 12: GND
- Pin 13: GND
- Pin 14: GND
- Pin 15: GND
- Pin 16: GND
- Pin 17: GND
- Pin 18: GND
- Pin 19: GND
- Pin 20: GND
- Pin 21: GND
- Pin 22: GND
- Pin 23: GND
- Pin 24: GND
- Pin 25: GND
- Pin 26: GND
- Pin 27: GND
- Pin 28: GND
- Pin 29: GND
- Pin 30: GND
- Pin 31: GND
- Pin 32: GND
- Pin 33: GND
- Pin 34: GND
- Pin 35: GND
- Pin 36: GND
- Pin 37: GND
- Pin 38: GND
- Pin 39: GND
- Pin 40: GND

The diagram also shows the connection of the IC3 XMEGA-A4 to the VIBRATOR, LIGHTS-SDA, LIGHTS-SCL, LED-XCK/SDO, LED-SCK/TXD, and IIRX-SH. The pin connections for these components are as follows:

- Pin 1: VCCDATA
- Pin 2: GND
- Pin 3: GND
- Pin 4: GND
- Pin 5: GND
- Pin 6: GND
- Pin 7: GND
- Pin 8: GND
- Pin 9: GND
- Pin 10: GND
- Pin 11: GND
- Pin 12: GND
- Pin 13: GND
- Pin 14: GND
- Pin 15: GND
- Pin 16: GND
- Pin 17: GND
- Pin 18: GND
- Pin 19: GND
- Pin 20: GND
- Pin 21: GND
- Pin 22: GND
- Pin 23: GND
- Pin 24: GND
- Pin 25: GND
- Pin 26: GND
- Pin 27: GND
- Pin 28: GND
- Pin 29: GND
- Pin 30: GND
- Pin 31: GND
- Pin 32: GND
- Pin 33: GND
- Pin 34: GND
- Pin 35: GND
- Pin 36: GND
- Pin 37: GND
- Pin 38: GND
- Pin 39: GND
- Pin 40: GND



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